OKI

MICROLINE 3990 FLATBED
Rear Tractor Feeder

Maintenance Manual

2001-04-13 Rev.1

PREFACE

This document describes the maintenance procedures for maintenance administrators for maintaining the rear tractor feeder installed as an option in MICROLINE 3990 FLATBED.

For handling or operating methods of the device, please read the Instruction Manual.

For information of the printer sections, please refer to the Maintenance Manual or Instruction Manual for the printer.

CAUTION!

- Copying the entire document or a portion of the document without permission is prohibited.
- The contents of this document subject to change without notice due to changes applied to the device or to refine the instructions for the device.

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1. SUMMARY

1.1 Functions

The rear tractor feeder, installed in the front section of the printer, feeds single sheets to the printer automatically by the rotation of the stepping motor in the printer. The main features are indicated below.

(1) Paper size

Standard paper:	Width	101.6 ~ 406.4mm (4 ~ 16in.)
	Length	76.2 ~ 355.6mm (3 ~ 14in.)
Ream weight:	Single sheet	45 ~ 110kg
	Multipart sheet	Original + 5 sheets (normal print mode)
		Original + 7 sheets (fast copy mode)

1.2 Appearance and Name of Parts

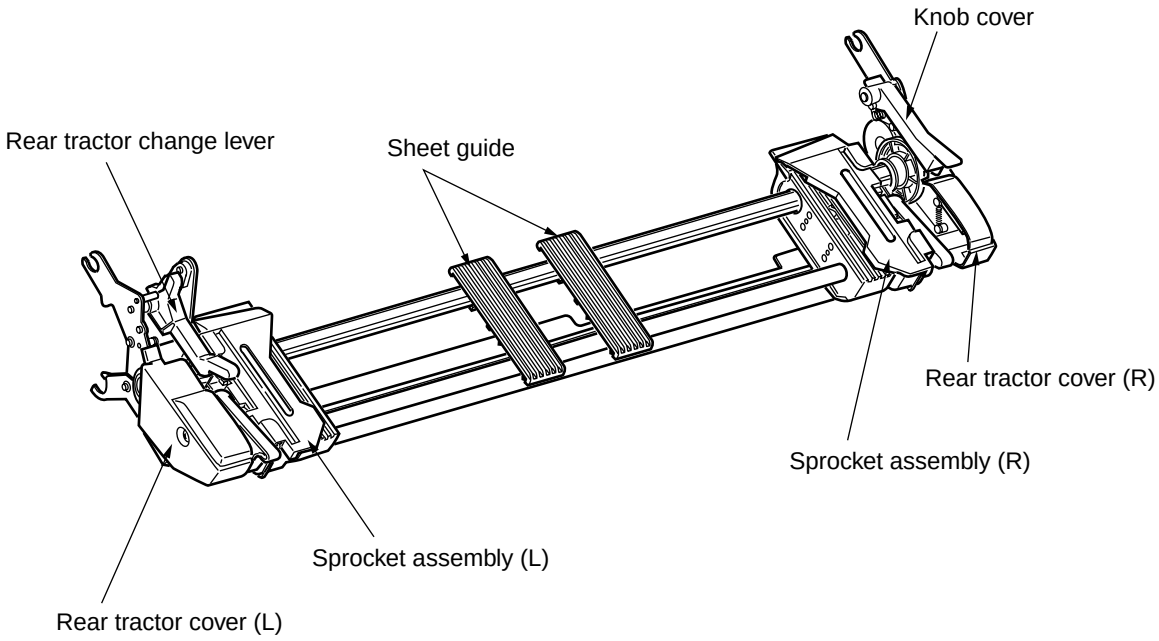


Diagram 1-1 Appearance and Name of Parts

2. OPERATIONAL INSTRUCTIONS

2.1 Drive Mechanism

The gears of the drive and tractor will mesh when the rear tractor feeder is installed to the printer.

The printer rotates the stepping motor when receiving a signal from the control section, transmits the power to the tractor gear and rotates the sprocket.

2.2 Paper Feed Mechanism

There are two paper feed methods in the rear tractor feeder section: 1) push-in method that sends fan-fold paper to the printer, and 2) double-tractor method that feeds paper by setting both the front and rear tractors.

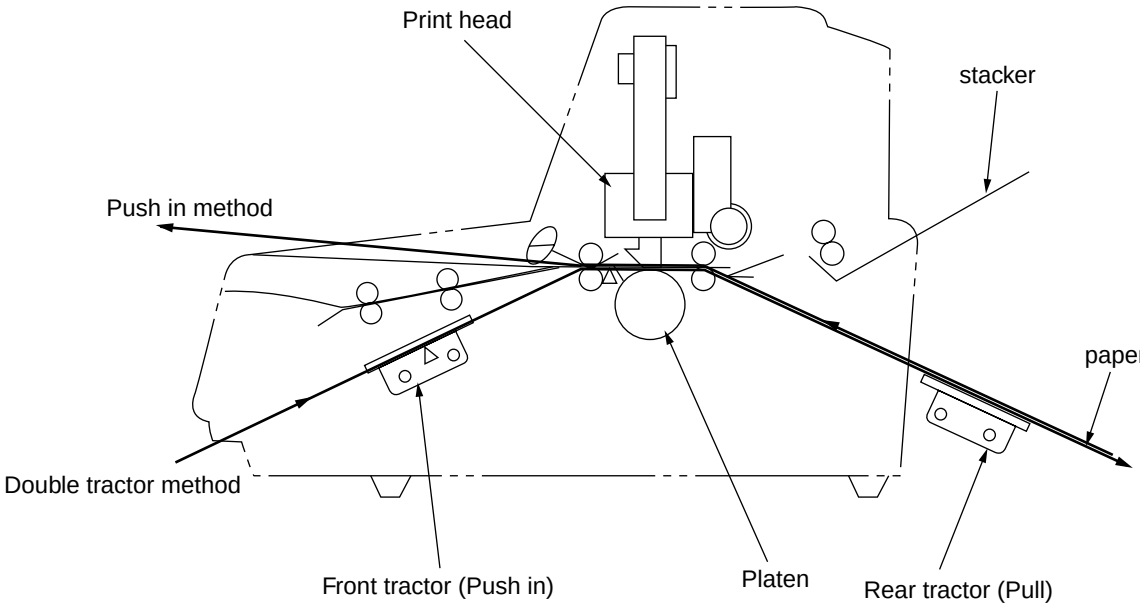


Diagram 2-1 Summary of mechanism

3. MAINTENANCE TOOLS

The following tools are required for disassembling or assembling the rear tractor feeder or when replacing maintenance parts.

No.	Maintenance Tools	Qty.	Application	Remarks
1	No.2-200 Phillips screwdriver	1	3-4mm screws	
2	3-100 screwdriver	1		
3	No.3 round pliers	1		

4. REPLACING PARTS

This chapter explains the procedures for disassembling and assembling various units. The procedures for disassembling are described, therefore, the procedures for assembling should basically be performed in the opposite sequence to disassembling.

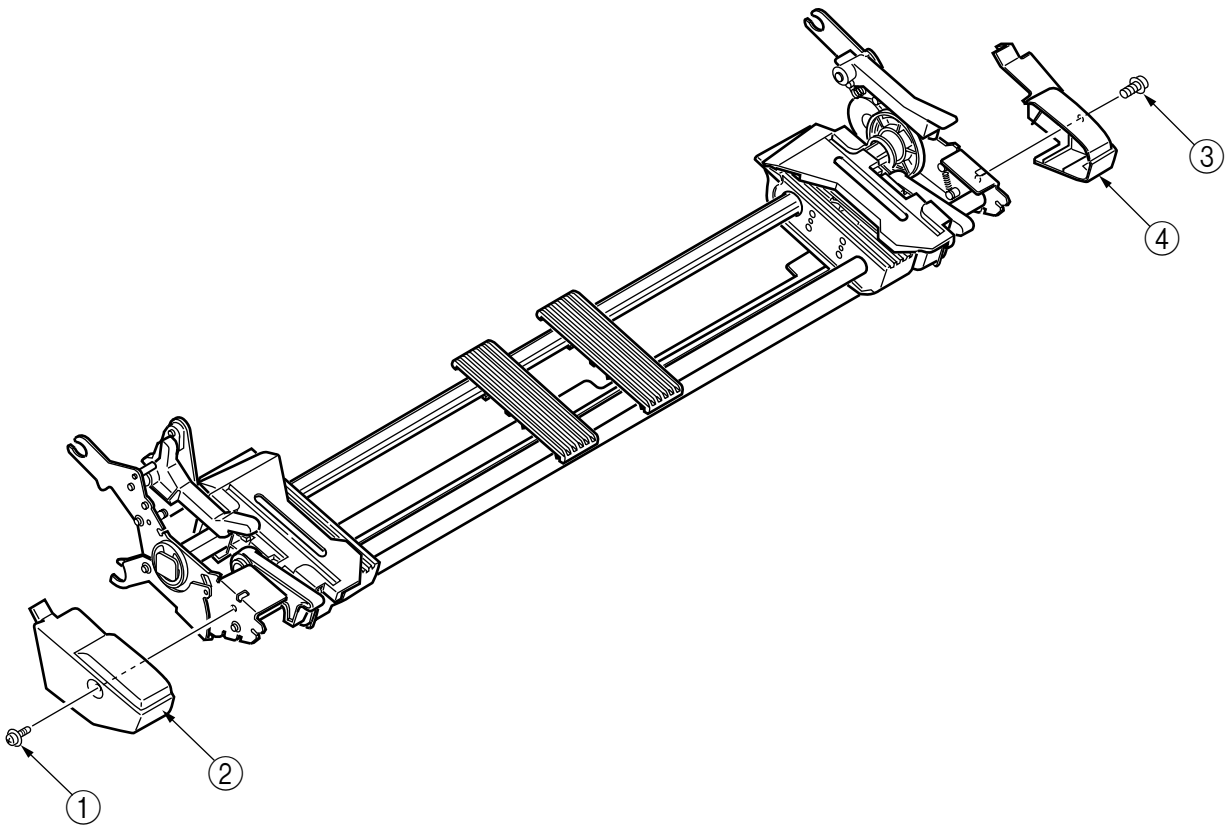
4.1 Precautions for Replacing Parts

(1) Disassembling and assembling must be performed after turning OFF the power of the printer and removing the rear tractor feeder from the printer.
(2) Do not disassemble if the rear tractor feeder is operating normally.
(3) Determine the range of disassembly according to the objective, and do not disassemble more than required.
(4) Tools that are used should be those that are specified.
(5) Disassemble in the specified order, otherwise, it may apply damages to the parts.
(6) Small parts such as screws and collars are easy to lose, therefore, they should be reattached temporarily in their original positions.

4.2 Procedures for Removing and Installing Parts

4.2.1 Side cover

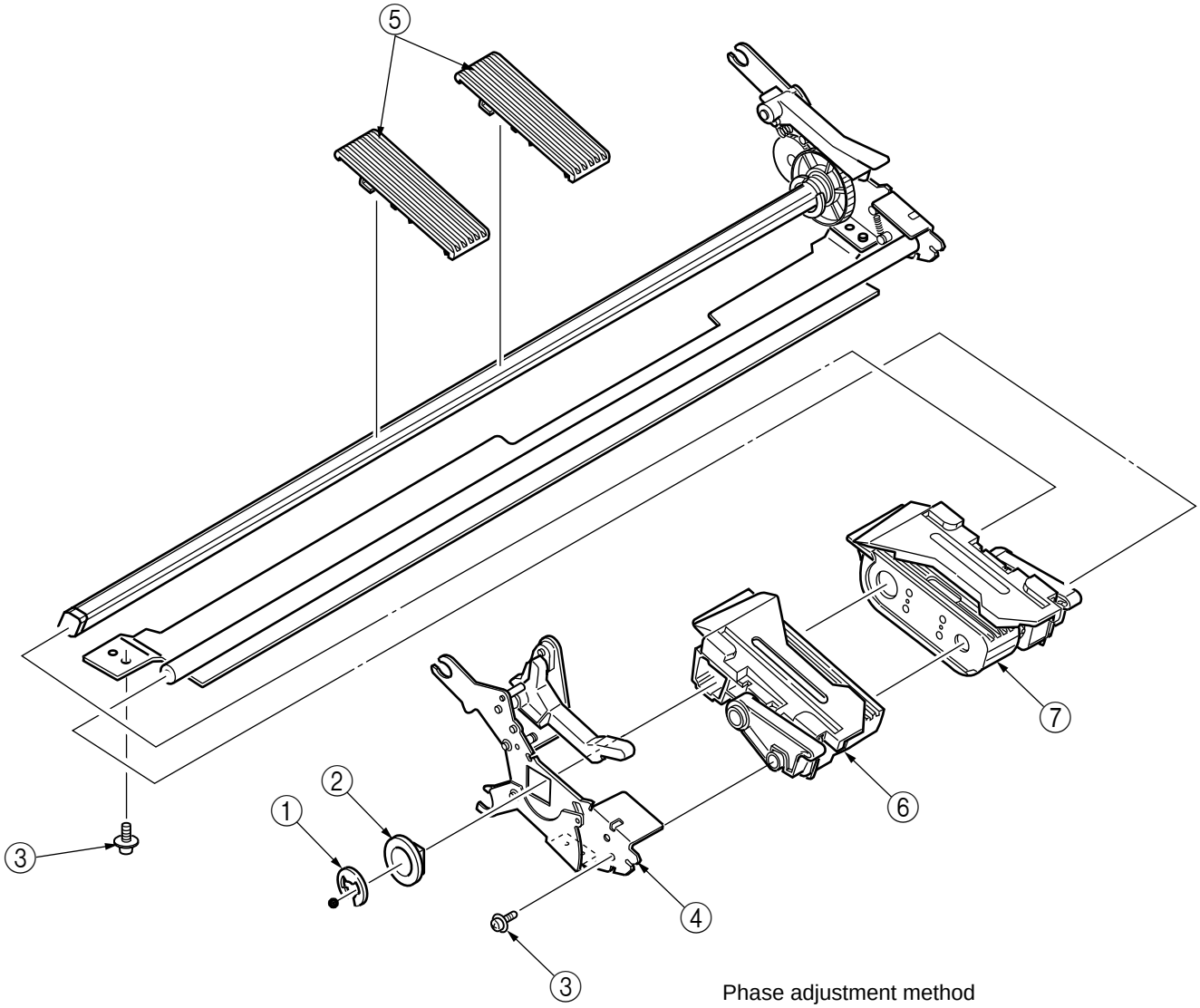
(1) Remove screw ① and side cover (L) ②.
(2) Remove screw ③ and side cover (R) ④.
(3) Reinstall the side cover in the opposite sequence to removal.



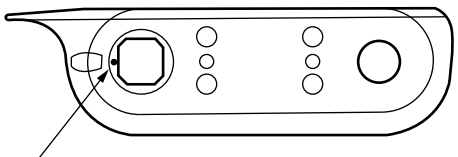
4.2.2 Sprocket Assembly

(1) Remove the side cover. (See Chapter 4.2.1)
(2) Remove E-shaped washer ① and bush ②.
(3) Remove two screws ③ and side frame ④.
(4) Remove sheet guide ⑤.
(5) Remove sprocket assemblies (L) ⑥ and (R) ⑦.
(6) Reinstall the side cover in the opposite sequence to removal.

[Precautions for reinstalling]
1. Adjust the phase of sprocket assembly (L) ⑥ and (R) ⑦.



Phase adjustment method



Adjust the convex section of the sprocket wheel to the front.

5. MAINTENANCE PARTS AND PERIODICAL REPLACEMENT PARTS

5.1 Maintenance Parts

Maintenance parts after using 100 rear tractor feeders in one year are listed in the table below.

(1) Condition of usage
Estimated time of actual operation: 2hrs./day, 50hrs./month

(2) Level of necessity
A: The amount must be increased according to the increase in the amount of used units.
B: The amount does not necessarily have to be increased even when the amount of used units increases.
C: Preparation is desirable.

Table 5-1 Maintenance Parts

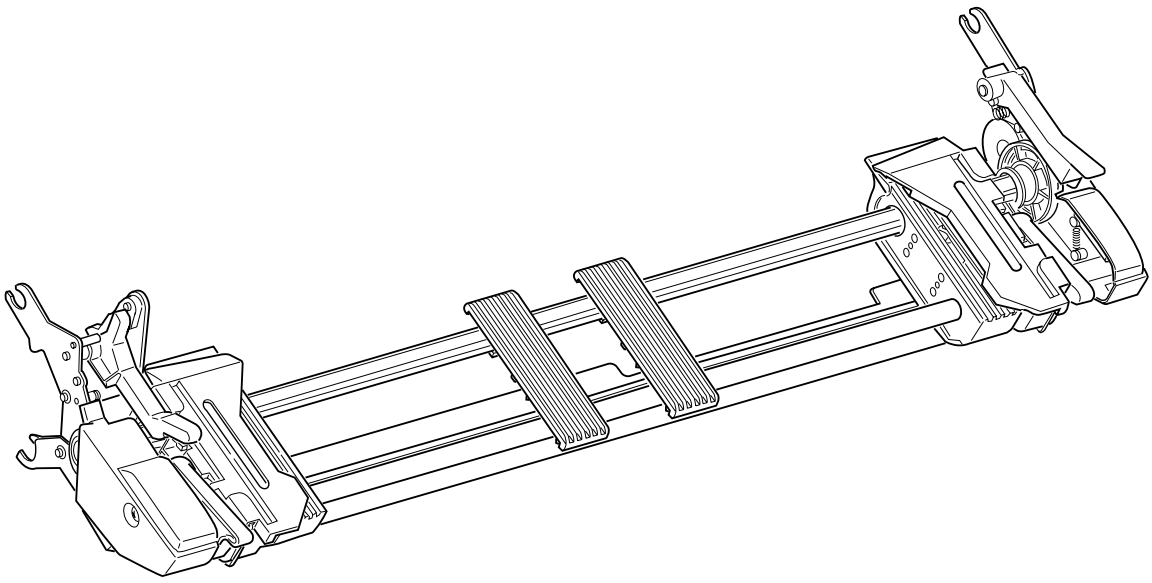
No.	Part	Part.No.	Amount of usage/unit	No.of maintenance parts	Necessity
1	Sprocket assembly (L)	41381102	1	2	C
2	Sprocket assembly (R)	41381302	1	2	C

6. CONFIGURATION PARTS TABLE

The main configuration parts of the rear tractor feeder are described below.

Name	Parts No.
Overall assembly figure	41197004
└— Rear tractor feeder	41197102

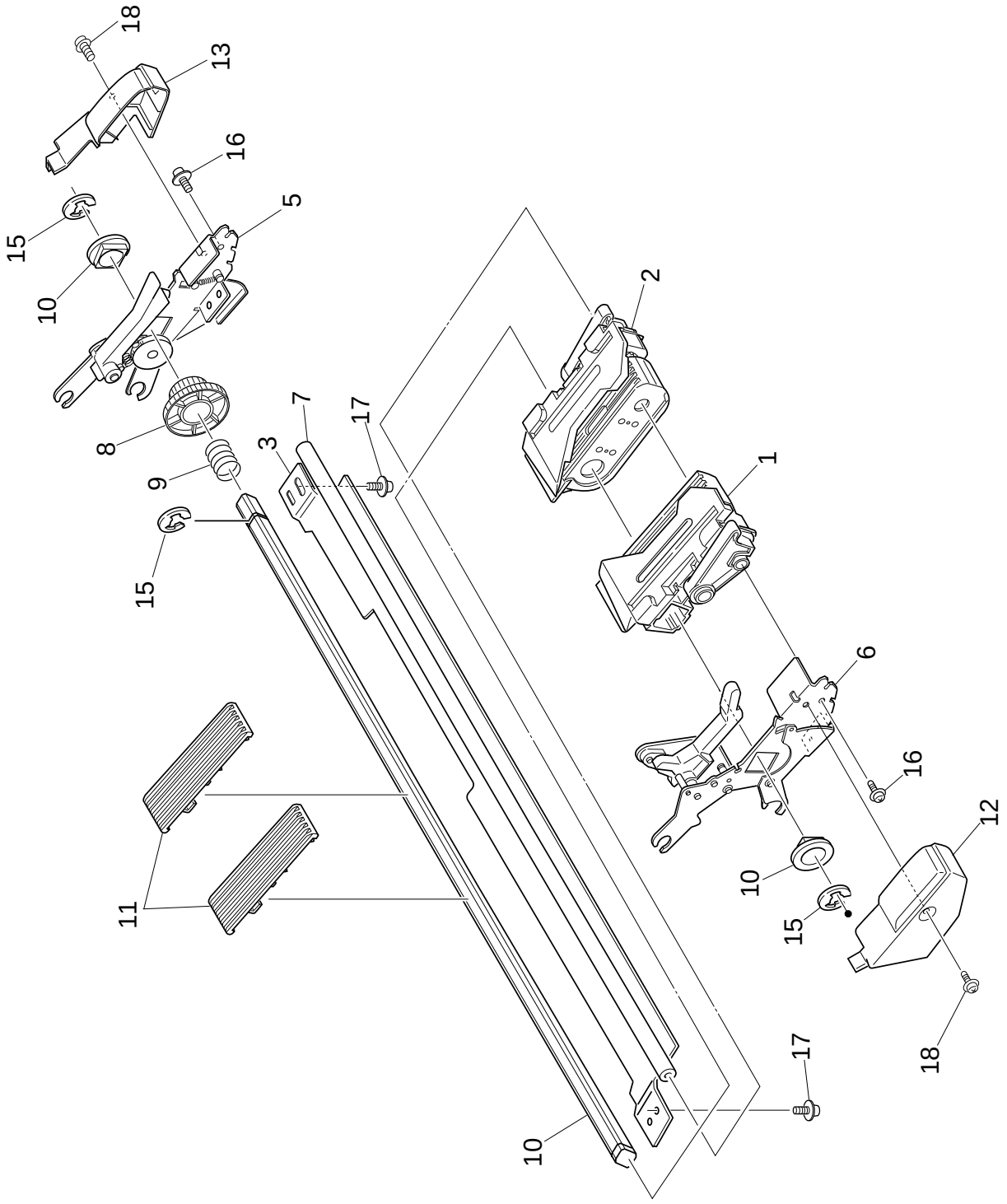
6.1 Overall Assembly Figure (41197004)



Overall Assembly Figure (41197004)

No.	Mark	Parts No.	Name/Rating	Qty.	Remarks
1		41197102	Rear tractor feeder	1	

6.2 Rear Tractor Feeder (41197102)



Rear Tractor Feeder(41197102)(1/1)

No.	Mark	Parts No.	Name/Rating	Qty.	Remarks
1		41381102	Wheel_sprocket (L)	1	
2		41381302	Wheel_sprocket (R)	1	
3		41197201	Guide shaft	1	
4		41197301	Drive shaft	1	
5		41197401	Frame assembly	1	
6		41198101	Frame assembly (R)	1	
7		41357401	Guide_rear tractor	1	
8		41198901	Gear with knob	1	
9		41357501	Spring_tention	1	
10		5LR-123498	bush	2	
11		5LR-123467	Sheet guide	2	
12		41246201	Rear tractor cover (L)	1	
13		41246301	Rear tractor cover (R)	1	
14					
15		RE10-SUS	E-shaped washer	3	
16		PSW2W3-6C	Screw	2	
17		PSWW3-6C	Screw	2	
18		D3-6G	Screw	2	